

**Main Ideas, Key Points, Questions:**

*After watching the video segment, write down key points, main ideas, and big questions.*

**Objective(s):**

- *Compare and contrast motors and generators, specifically on what they each use to work and how they both use electromagnetic induction.*

**Notes:**

*During the video segment, use words, phrases, or drawings to take notes.*



**Summary:**

*After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: "If I was going to explain this to someone else, what would I say?"*

**Answer the following.**

1. How does a motor differ from a generator?

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2. How do motors and engines differ?

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3. What is created when there is relative motion between a wire and a magnetic field?

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4. In a direct current motor, what is the result of the magnetic field acting on the wire?

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5. What is necessary in both direct current and induction motors in order to turn the rotors?

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6. What is the easiest way to increase the magnetic force acting on the rotor in an induction motor?

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7. What turns the turbines in the generators of nuclear, coal, or natural gas power plants?

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8. What kind of current do power plants generate?

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9. The purpose of transformers is to reduce the \_\_\_\_\_ created at the power plant to a more manageable level at your home.